

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P533564

Luminaire Tested: **GALN-SA9A-730-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533564
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-730-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31942 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

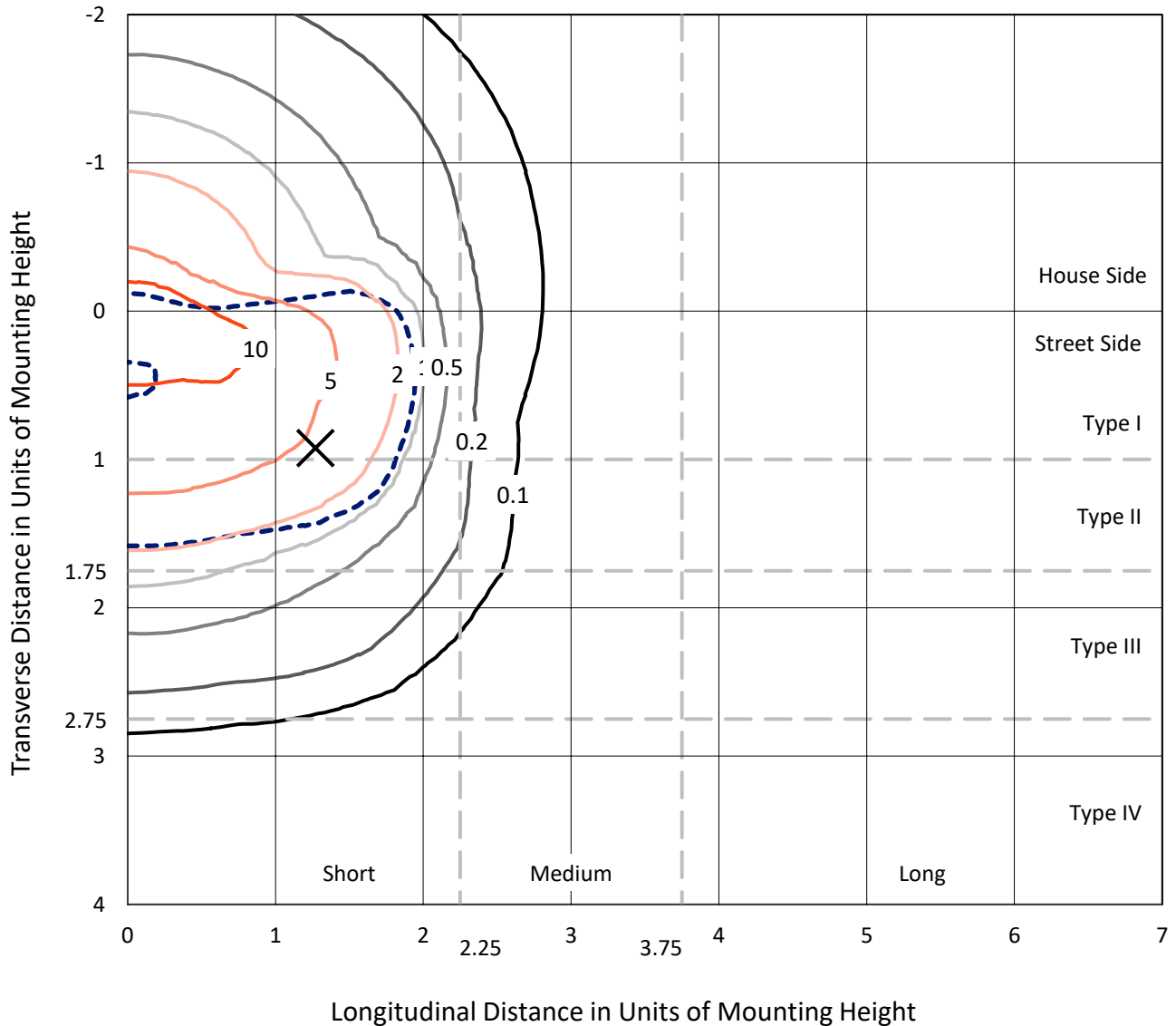
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

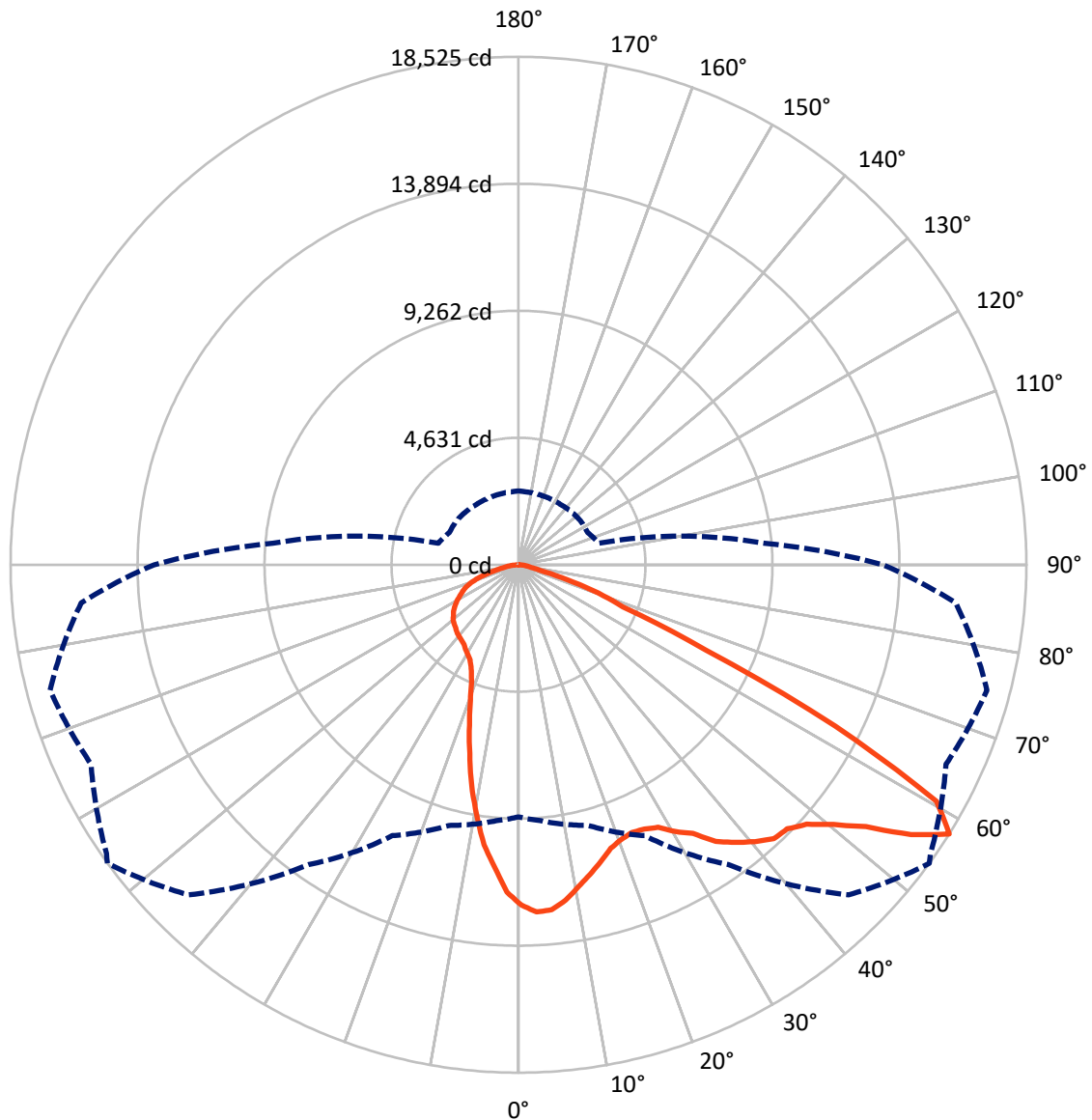
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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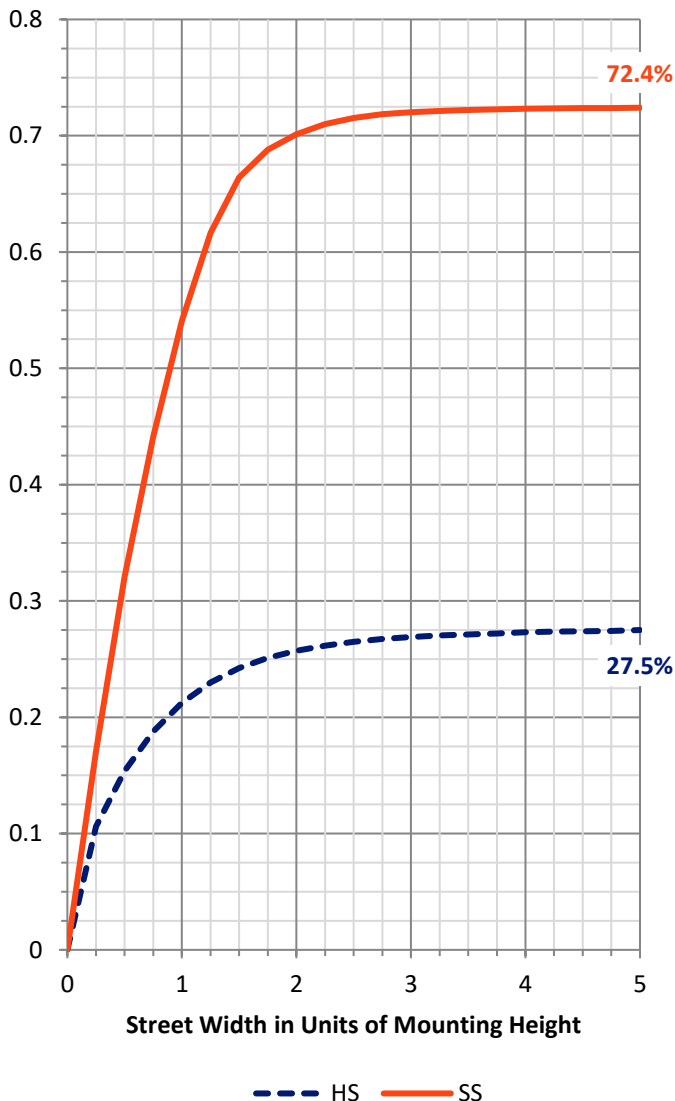
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8836.9	0.0	8836.9
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	23105.1	0.0	23105.1
	% Fixture	72.3	0.0	72.3
Total	Lumens	31942.0	0.0	31942.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1070.7	3.4
10°-20°	2479.1	7.8
20°-30°	3483.2	10.9
30°-40°	4869.5	15.2
40°-50°	6592.4	20.6
50°-60°	8029.8	25.1
60°-70°	4182.3	13.1
70°-80°	1071.7	3.4
80°-90°	163.5	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	31942.0	100.0
0°-180°	31942.0	100.0

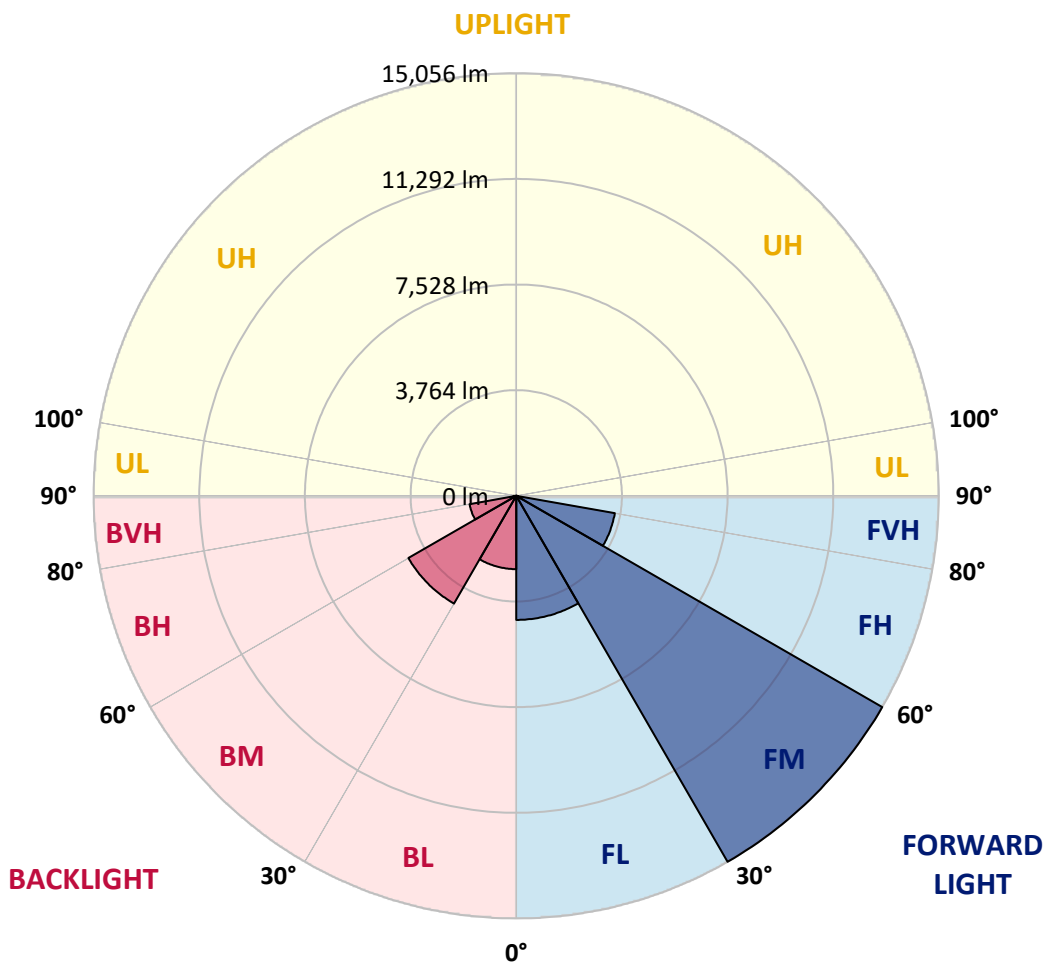


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4421.2	13.8			
FM (30°-60°)	15056.5	47.1			
FH (60°-80°)	3565.6	11.2			G2/5000
FVH (80°-90°)	61.8	0.2			G1/100
BL (0°-30°)	2611.8	8.2	B4/5000		
BM (30°-60°)	4435.2	13.9	B3/5000		
BH (60°-80°)	1688.3	5.3	B3/2500		G3/2500
BVH (80°-90°)	101.7	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	12415.5	12415.5	12415.5	12415.5	12415.5	12415.5	12415.5	12415.5	12415.5	12415.5	12415.5
2.5°	12768.6	12719.3	12727.5	12793.2	12711.1	12678.3	12678.3	12518.1	12530.4	12419.6	12390.9
5°	12473.0	12358.0	12436.0	12534.6	12551.0	12583.8	12637.2	12596.1	12481.2	12362.1	12169.2
7.5°	11701.1	11803.7	11832.5	11902.3	12050.1	12185.6	12353.9	12238.9	12234.8	12115.8	12000.8
10°	11023.7	10962.1	11118.1	11220.7	11467.1	11692.9	11951.6	11939.2	12000.8	11865.3	11668.3
12.5°	10350.3	10301.1	10375.0	10609.0	10953.9	11282.3	11590.3	11475.3	11803.7	11779.1	11356.2
15°	9636.0	9672.9	9779.7	9997.3	10448.9	10843.0	11233.1	11237.2	11528.7	11627.2	11060.6
17.5°	9135.1	9094.0	9229.5	9553.9	9956.2	10428.4	10871.8	10962.1	11409.6	11467.1	10970.3
20°	8761.5	8818.9	8995.5	9159.7	9623.6	10194.3	10695.2	10728.1	11385.0	11541.0	10826.6
22.5°	8671.1	8638.3	8695.8	8962.6	9344.5	9964.4	10600.8	10724.0	11380.9	11516.4	10555.6
25°	8576.7	8683.5	8679.3	8946.2	9225.4	9779.7	10678.8	10814.3	11598.5	11643.6	10592.6
27.5°	8790.2	8777.9	8892.8	8913.4	9258.2	9828.9	10843.0	10945.7	11959.8	11922.8	10621.3
30°	9003.7	8942.1	9011.9	9254.1	9414.3	10112.2	11294.6	11286.4	12427.8	12403.2	10711.6
32.5°	9266.5	9237.7	9282.9	9496.4	9767.3	10489.9	11676.5	11918.7	12904.1	13060.1	11023.7
35°	9315.7	9434.8	9541.5	9828.9	10214.9	11101.7	12395.0	12596.1	13454.2	13942.8	11619.0
37.5°	9627.8	9672.9	9923.4	10432.5	10785.5	11918.7	12850.7	12978.0	13955.1	14509.4	12247.2
40°	9960.3	10013.7	10391.4	10925.1	11409.6	12452.4	13277.7	13318.7	14115.2	14944.6	12657.7
42.5°	10411.9	10461.2	10834.8	11504.0	12152.7	12908.2	13655.4	13700.6	14102.9	15445.5	13310.5
45°	10880.0	10999.0	11438.3	12197.9	12780.9	13441.9	13741.6	13926.4	14217.9	15893.0	13840.2
47.5°	11536.9	11647.7	12009.0	12752.2	13433.7	13909.9	14139.9	14320.5	14492.9	16283.0	14180.9
50°	12234.8	12255.4	12694.7	13368.0	13868.9	14439.6	14883.0	14944.6	14854.2	16734.6	14759.8
52.5°	12748.0	12813.7	13154.5	13811.4	14558.6	15260.7	15868.3	15934.0	15757.5	16903.0	14956.9
55°	11898.2	11861.2	12415.5	13290.0	15022.6	16484.2	17366.9	17416.2	16414.4	17424.4	15601.5
57.5°	9196.7	9373.2	9845.4	10900.5	13347.5	17026.1	18524.7	18348.2	17202.7	17687.1	16012.0
60°	6684.0	6642.9	6959.1	7665.3	10058.8	14673.6	17514.7	17695.4	16558.1	15942.2	13203.8
62.5°	5444.1	5386.6	5411.2	5435.9	6491.0	9738.6	12965.6	12961.5	12752.2	11458.9	8905.2
65°	4352.0	4487.5	4499.8	4684.5	4820.0	5817.7	7513.3	7915.7	6893.4	5653.5	4101.5
67.5°	3280.4	3231.1	3395.4	4052.3	4306.8	4200.1	4101.5	4146.7	2947.9	2126.7	2003.6
70°	1933.8	1913.2	2110.3	2824.7	3547.3	3337.9	3091.6	3095.7	2024.1	1486.2	1654.6
72.5°	1059.3	1055.2	1096.2	1432.9	2015.9	2093.9	1855.8	1913.2	1207.1	1203.0	1293.3
75°	591.2	578.9	566.6	632.3	726.7	767.8	784.2	792.4	829.3	927.9	964.8
77.5°	217.6	209.4	209.4	242.2	307.9	385.9	488.6	496.8	587.1	673.3	710.3
80°	73.9	82.1	110.9	151.9	205.3	275.1	332.6	340.8	414.7	472.1	484.5
82.5°	45.2	49.3	73.9	106.7	147.8	193.0	246.3	250.4	307.9	344.9	361.3
85°	20.5	24.6	41.1	65.7	94.4	127.3	131.4	131.4	127.3	131.4	123.2
87.5°	0.0	0.0	8.2	8.2	8.2	12.3	16.4	12.3	20.5	24.6	24.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12415.5	12415.5	12415.5	12415.5	12415.5	12415.5	12415.5	12415.5	12415.5	12415.5	12415.5
2.5°	12304.6	12259.5	12119.9	11996.7	11959.8	11795.5	11553.3	11582.0	11405.5	11487.6	11401.4
5°	12136.3	11984.4	11627.2	11475.3	11077.0	10896.4	10773.2	10465.3	10321.6	10292.9	10169.7
7.5°	11705.2	11610.8	11163.3	10752.7	10329.8	9968.5	9504.6	9188.4	8962.6	8901.1	8720.4
10°	11364.4	11155.1	10535.1	9911.0	9307.5	8679.3	8075.8	7603.7	7373.7	7106.9	7016.6
12.5°	11027.8	10711.6	9874.1	9073.5	8293.4	7501.0	6770.2	6195.4	5694.5	5575.5	5534.4
15°	10818.4	10268.2	9282.9	8318.0	7209.5	6174.9	5444.1	5066.4	4758.4	4631.2	4721.5
17.5°	10543.3	9902.8	8716.3	7431.2	6211.9	5259.3	4647.6	4413.6	4302.7	4315.0	4278.1
20°	10198.4	9558.0	7973.2	6626.5	5320.9	4561.4	4212.4	4126.2	4142.6	4171.3	4159.0
22.5°	9952.1	9139.2	7435.3	5805.4	4598.3	4175.4	4031.7	3970.2	4023.5	4048.2	4027.6
25°	9763.2	8782.0	6782.5	5078.7	4179.6	3957.8	3892.2	3888.1	3970.2	4003.0	3982.5
27.5°	9590.8	8449.4	6133.8	4524.4	3900.4	3789.5	3769.0	3818.3	3871.6	3904.5	3933.2
30°	9488.2	8194.9	5526.2	4060.5	3760.8	3707.4	3670.5	3715.6	3744.4	3777.2	3760.8
32.5°	9586.7	8014.2	4939.1	3797.7	3645.8	3592.4	3641.7	3613.0	3662.2	3691.0	3645.8
35°	9894.6	7854.1	4520.3	3658.1	3514.4	3535.0	3543.2	3530.9	3551.4	3526.8	3580.1
37.5°	10198.4	7796.6	4134.4	3539.1	3452.9	3452.9	3444.6	3420.0	3461.1	3452.9	3477.5
40°	10584.4	7833.6	3805.9	3411.8	3395.4	3387.2	3354.3	3350.2	3333.8	3337.9	3346.1
42.5°	10921.0	7915.7	3617.1	3329.7	3342.0	3358.4	3296.8	3247.6	3268.1	3227.0	3227.0
45°	11278.2	7989.6	3448.7	3272.2	3259.9	3255.8	3206.5	3177.8	3161.4	3165.5	3202.4
47.5°	11840.7	8096.3	3321.5	3194.2	3202.4	3140.8	3128.5	3091.6	3108.0	3132.6	3136.7
50°	12238.9	8322.2	3222.9	3103.9	3132.6	3091.6	3017.7	3001.2	3001.2	3042.3	3034.1
52.5°	12518.1	8638.3	3128.5	3005.3	3017.7	2984.8	2960.2	2923.2	2898.6	2956.1	2984.8
55°	13372.1	9163.8	3103.9	2923.2	2919.1	2886.3	2841.1	2804.2	2791.8	2800.1	2857.5
57.5°	13290.0	8999.6	3025.9	2779.5	2771.3	2726.2	2681.0	2668.7	2664.6	2672.8	2689.2
60°	10789.7	6647.0	2701.5	2615.3	2603.0	2594.8	2549.6	2500.3	2475.7	2500.3	2479.8
62.5°	7139.7	4450.5	2381.3	2418.2	2426.4	2405.9	2332.0	2282.7	2291.0	2319.7	2274.5
65°	3506.2	2615.3	2159.6	2258.1	2266.3	2208.8	2139.0	2081.6	2052.8	2077.5	2056.9
67.5°	2003.6	1999.5	1978.9	2081.6	2077.5	2020.0	1909.1	1859.9	1810.6	1818.8	1806.5
70°	1699.7	1732.6	1773.6	1835.2	1831.1	1765.4	1634.0	1597.1	1527.3	1519.1	1498.6
72.5°	1338.4	1395.9	1486.2	1531.4	1494.5	1412.3	1326.1	1264.5	1203.0	1166.0	1178.3
75°	993.6	1075.7	1124.9	1153.7	1096.2	1051.0	981.3	907.3	833.4	800.6	788.3
77.5°	722.6	747.2	792.4	812.9	776.0	730.8	689.7	615.8	546.1	500.9	488.6
80°	505.0	521.4	554.3	554.3	554.3	533.7	480.4	406.5	361.3	320.2	312.0
82.5°	353.1	369.5	402.4	385.9	381.8	357.2	324.3	266.9	217.6	188.9	180.6
85°	123.2	135.5	164.2	197.1	209.4	205.3	184.8	147.8	115.0	94.4	86.2
87.5°	28.7	28.7	32.8	28.7	28.7	32.8	28.7	28.7	28.7	20.5	16.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)